PROTECTION from FIRE, and GREAT ECONOMY in BUILDING.—A pamphlet, descriptive of the method by which both these important objects are secured, may be obtained on application to Messrs FOX and BARRETT, 48, Leicester-square.

PATENT GALVANIZED IRON, Plain or Corrugated, for ROOFS, HOUSES, &c. Wholesale, Retail, and for Export.

Apply to TUPPER and CARR,
1, MANSION HOUSE PLACE, LONDON;
or BROAD-STREET, BIRMINGHAM.

Patent Galvanized Iron Guttering,
Water or Gas-pipes, Hooping, Wire, &c.
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IRON BUILDING and ROOFING WORKS,
BIRMINGHAM, late of Southwark.
JOHN H. PORTER,
Manufacturer of the Corrugated and other kinds of Iron Roofing for railway stations, carriage sheds, farm buildings, gas-works, warehouses, factories, &c. &c.

PATENTEE
Of the Corrugated Iron Beams, Girders, and Fire-proof Floors.

TO GAS AND WATER COMPANIES, ENGINEERS, AND CONTRACTORS.

ANDREW M'LAREN & Co., Ironfounders, STEEL YARD WHARF, UPPER THAMES-STREET, have always on hand a large STOCK of SOCKET PIPES of all sizes, with the usual connections. Retorts, columns, girders, and all descriptions of castings contracted for.

Their stock of goods for GENERAL IRONMONGERS is unequalled for variety and lowness of price: comprising, ranges, register, and elliptic metal and stoves, rain-water pipes, O.G., and half-round guttering, sash-weights, railing bars, panels, bakers' oven work, disk traps, air bricks, water closet metal, &c. &c.

Printed list of prices, and books of drawings for the use of ironmongers, forwarded on application.

IRON FOUNDRY, 80, Goswell-street (late of Brick-lane, St. Luke's).—J. J. JONES having made great additions to his STOCK of PATTERNS, begs to inform the Trade, that he can now supply them with Plain and Ornamental Iron Columns, Girders, Railings, Gates, Iron Coping, Balconies, Window Guards, Verandahs, Ornamental Staircases, Palisades, Iron Bedsteads, Tomb Enclosures, Trellis Panelling, Lamp and other Brackets, Cantilevers, Newel Bars, Water Closet Work, Area Gratings, Fly and other Wheels, Wheel Plates, &c.

BAKERS' OVEN WORK, Forge Backs and Troughs, Rain Water Pipes and Gutters, Sash Weights, Furnace Bars, Stoves, Ranges, &c., always in stock.

WARMING BY HOT WATER.—J. WEEKS and Co., KING'S ROAD, CHELSEA, solicit the honour of Architects to inspect their Hot-Water Apparatus, which is to be seen on their premises, in extensive operation. Ornamental Pedestals and Stands of Pipes in great variety, applicable for warming churches, mansions, entrance halls, offices, conservatories, &c.—TUBULAR BOILERS of all sizes, warranted to be the most efficient and economical of any yet introduced.—J. WEEKS and Co., Hot-Water Apparatus Manufacturers, King's-road, Chelsea.

HOT-WATER APPARATUS.—The attention of architects, builders, and others is respectfully requested to BENJAMIN FOWLER'S superior method of heating churches and chapels, halls, staircases, conservatories, forcing and greenhouses, manufactories and warehouses, kilns, rooms for drying timber, &c., and every variety of purpose for which artificial heat is required. Within the last twenty years some hundreds of buildings have been heated upon this plan, and the parties for whom they were executed are continually expressing their satisfaction, also their willingness to vouch for their efficiency.

BENJAMIN FOWLER, late of 68, Dorset-street, removed to the new factory, Whitefriar-street, Fleet-street.

FULKES' RANGE and STOVE MANUFACTORY, and Builders' Ironmongery Warehouse, 91 and 92, Park-street, Camden-town.—An extensive stock of ranges, bright and black register stoves, rain water pipes and guttering, sash-weights, and all kinds of builders' ironmongery, at same prices as advertised by other houses.

GRICE'S IRONMONGERY, STOVE, and RANGE WAREHOUSE, 13, Wellworth-road, London.

Elliptic Stoves, with Loobie Backs, 9½d. per inch; Register Stoves, 5d. per inch.
5-feet Self-acting Cottage Ranges, Oven and Back Boiler, 12s. each.
Cast Sheet Floor Brads, 11d. 3d. per cwt.

Cast Clasp Nails.				
12s.	14s. 6d.	14s.	13s.	12s. 6d. cwt.
1½	1¼	1	¾	1 in.

Finish Cast Lath, 11s. 6d. per cwt.
6-inch 3-bolt Rim Locks, with Scotch Springs, best patent furniture, 14s. 6d. per dozen.
Improved Bow Leaches, 6s. 6d. per doz.
HOT WATER APPARATUS for heating greenhouses, &c., on improved principles, below the cheapest heat known.

TO BUILDERS, CARPENTERS, &c.—The undermentioned are the PRESENT PRICES of IRONMONGERY, at YOUNG'S, 194, Oxford-street. Every other article equally low. Orders executed upon receipt of remittance or a respectable London reference.

	2	3	4	5	6 Inches.
Cast Butts	8s. 3d.	7s. 6d.	11s. per 8 dozens.		
Cut Clasp	3d.	7d.	1s. 3d.	1s. 9d.	per lb.
	6d.	6d.	10d.	10d.	Less.
Nos.	2	4	5	6	
Patent Line	6s.	7s. 3d.	8s.	10s. 6d.	per gross.
	2	3½	5	6 Inches.	
Rain Pipe	6½d.	8½d.	1s. 1d.	per yard.	

TO BUILDERS AND CARPENTERS.

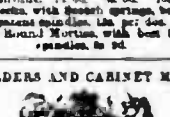
HAYWARD, BROTHERS, late R. HENLY and Co., WHOLESALE IRONMONGERS and SMITHS, 168, Marshalsea-road, and 117 and 118, Union-street, Borough.

Elliptic Stoves from 9½d. per inch. Register ditto, from 5d. ditto

	2	3	4	5
Cast Rain-water pipe	8d.	10d.	1s. 1d.	per yard.
Best Sheet Floor Brads, 11s. 6d.	per cwt.	Cast Lath, 12s. ditto.		
	12	11	9	
Best Cut Clasp	12s. 6d.	12s. 6d.	12s. 6d.	per cwt.
No.	3	5	6	
Best Patent Sash-line	7s. 6d.	9s. 6d.	10s. 6d.	per gross.

6 in. 3-bolt Rim Locks, with Scotch springs, best brass furniture, and patent spindles, 15s. per doz.
6 in. 3-bolt ward Enamel Mortice, with best fur. and patent spindles, 2s. 9d.

TO BUILDERS AND CABINET MAKERS.



EDGAR PARK, Wholesale Ironmonger, 130, Fleet-street, respectfully assures his friends that his prices are equally as low as other respectable houses, and, taking quantity for quality, they will be found, in many instances, from 5 to 20 per cent. less.

Fine Cut Clasp, 1½, 1¼, 1, ¾, 1½ in. per cwt.
Best Cast Lath, 1½, per cwt. Air Bricks, 3s. 6d. per doz.
9 in. 3-bolt Tower Bolts, 3s. 3d. per doz.
6 in. Rim Mortice, 1s. 1d. per yd. 4 in. ditto, 9½d. per yd.
Elliptic Stoves, double backs, 3½d. per inch.
5 ft. self-acting Cottage Ranges, 55s.
No. 4, Patent Sash Line, 7s. 6d. per gross.
24 Sash Fasteners, 2s. per doz. Sash Weights, 5s. per cwt.
14 in. Oven Shovels, 2s. 6d. per doz. &c. &c.
Agent for the new Patent self-acting Regent Stoves, superior in quality and lower in price than the old marks.
Dr. Arnott's improved Ventilators, bronzed, with moths fronts, 4s.

TO BUILDERS and CARPENTERS.—Elliptic Stoves, double backs, 9½d. per inch.
Register Stoves, 5d. per inch. 6½d. per inch.
Self-acting Ranges, with stewpan and hook boilers, best wrought bars and bright fittings—

4 ft. 6 in.	5 ft. 0 in.	5 ft. 6 in.	6 ft. 0 in.
£5 15s.	£6 6s.	£6 17s.	£7 8s.

3-feet Cottage Ranges, with ovens and hook boilers, 55s. each.
3-feet self-acting ditto, ditto ..... 32s. each.
Air Bricks, 3s. 6d. per doz.—3-inch Cut Lath Nails, 12s. 6d. per cwt.
Best Patent Cut Clasp.

1½	1¼	1	¾	9 inch and larger.
14s. 6d.	14s.	13s.	13s. 6d.	12s. per cwt.

Best Sheet Floor Brads, 11s. 6d. per cwt.
Best Town Glue, 8½. Ditto, Scotch, 10½ per cwt.
Best Patent Sash Line.

1	2	3	4	5	6
6s.	6s. 6d.	7s.	8s.	10s.	9d. per gross.

At P. R. WILLIAMSON'S IRONMONGERY and STOVE WAREHOUSE, 36, Chiswell-street, Finsbury-square.
Lists of Prices had on application at the Warehouse, or by letter pre-paid, inclosing postage stamp.—Warehouse closed at 7 o'clock.

CLARK and HUNT'S IRONMONGERY, STOVE and METAL WAREHOUSE, 128, Shoreditch.
Strong Elliptic Stoves, with extra beads, 8½d. per inch.
Register Stoves, 5d. per inch.
5-ft. Self-acting Cottage Ranges, with Oven and Boilers, 55s. each.
3-ft. Self-acting ditto, with stewpan & hook and bright fittings, 32s. ea.

Cast Rain-water Pipe	9 in.	8 in.	3 inch.
	8d.	10d.	1s. per yard.
Cast Gutters—4 inch, 6d. per yard.			
O.G. Gutters	4		6d. inch.
	11d.		1s. per yard.

Best Cut Clasp and Nails

1½	1¼	1	¾	3 inch.
14s. 6d.	14s.	13s.	12s. 6d.	per cwt.

Sheet Floor Brads, 11s. 6d. per cwt.
1-inch Cut Lath, 1s. per cwt. Cast Lath, 2s. 6d.
6-inch 3-Bolt Rim Locks, with Scotch Springs and best Furniture 14s. per doz.
Patent Spindles, 12s. per doz.
6-inch 3-Bolt Rd. Ward Mortice, with best Furniture and Patent Spindles, 2s. 3d.
Light Elliptic and Register Metal, 12s. per cwt.
Hot Water Pipes, 8s. 6d. per cwt.

TO BUILDERS, CABINET-MAKERS, and OTHERS.

Best Cut Sheet Flooring Brads, 12s. per cwt.
Fine Cut Clasp and Nails.

12s.	14s. 6d.	14s.	13s.	12s. per cwt.
1½	1¼	1	¾	3 inch.

Cross Garnet Hinges, per dozen pair.

2s. 3d.	2s. 6d.	3s. 6d.	5s.	6s.	8s.
10	12	14	16	18	20 in.

Best Bright Tower Bolts, per doz.

1s. 3d.	1s. 7½d.	2s. 6d.	3s. 6d.	5s. 10d.	7s. 6d.
3	4	5	6	8	9 in.

Iron Rain-water Pipe.

9½d.	10½d.	1s. 1d.	1s. 5d.	1s. 6d. per yard.
3	3½	4	4 inch.	

Best London Glue, 10s. per cwt.
Cast Lath Nails, 14s. per cwt.
Air Bricks, 3s. 6d. per doz.
Hooping for boxes, 8l. 10s. per ton.
Sash Weights, 5s. per cwt.
TERMS—NET CASH.
A price-list may be had on application.
A. L. PFEIL and Co.,
Wholesale Ironmongers, Brass Foundry and Nail Warehouse,
3 and 6, Broad-street, Bloomsbury, London.
AGENTS FOR LEAR'S PATENT MORTISE LOCKS AND BOLTS.

TO BUILDERS AND CARPENTERS, &c.

J. H. BOOBBYER and CO., late Sturch and Boobbyer, Ironmongery, Brass Foundry, Nail, and Tool Warehouse, No. 14, Stanhope-street, Clare-market, London, for the supply of Carpenters, Builders, Cabinet-makers, Upholsters, &c., at wholesale prices.

Best Cut Sheet Flooring Brads, 12s. per cwt.
Fine Cut Clasp and Nails.

12s.	14s. 6d.	14s.	13s.	12s. per cwt.
1½	1¼	1	¾	3 inch.

Best Bright Tower Bolts.

1s. 3d.	1s. 7d.	2s. 3d.	3s. 6d.	per dozen.
3	4	5	6	inch.

Best Patent Sash Line.

6s.	6s. 6d.	7s.	8s.	10s. 6d.	per gross.
No. 1	2	3	4	5	6

Cast Lath Nails, 10s. per cwt. Sash Weights, 5s. per cwt.
Air Bricks, 3s. 6d. per dozen.

DR. ARNOTT'S VENTILATORS.

11 by 8 inches	6s. each.
16 by 9 ...	8s. "

An assortment in Brass, Bronzed, Gilt, &c.

An extensive stock of Mortice Locks, Drawback Locks, Iron Rim Locks, and Latches, of every description, at very reduced prices; also Door Furniture, in china, amber, crystal, ivory, bone, buffalo, horn, brass, &c., with Finger plates, Bell-pulls, and Levers, as made.
B. and Co. are the inventors of BIRMINGHAM BOLT MORTISE LOCKS, &c., so universally approved of.—Established nearly 200 years, for the supply of goods from the best manufactories at the lowest prices.

THE attention of Architects, Engineers, and Builders is particularly invited to JENNINGS'S INVENTIONS. Experience has enabled him to make his INDIA-RUBBER SYPHON JOCKS and WATER-CLOSETS as perfect as possible. Specimens of the highest order as to their efficiency and durability can be given. Patents secured with JENNINGS'S SHUTTER SHOES, can be referred to in any part of London.—For descriptive drawings, &c., apply to the inventor, 89, Great Charlotte-street, Blackfriars-road.

GIBBS, CANNING, and CO., Tamworth, Manufacturers of GLAZED STONEWARE PIPES, Bends, Junctions, &c. also PIME BRICKS, Vitrified Blue Bricks as used by her Majesty's Commissioners of Sewers; White Fire Clay, Facing Bricks, &c. &c. Agents.—Messrs. FREEMAN and RICHARDSON, No. 6, South Wharf, Paddington, London.

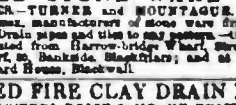
GLAZED STONE WARE DRAIN PIPES.—TURNER and MOUNTAGUE, Leigh, near Southwood, Essex, manufacturers of stone ware drain pipes and drain tiles. Drain pipes and tiles to any pattern.—Orders received by, and executed from Harrow-bridge Wharf, Stratford, Essex; Falcon Wharf, 33, Bankside, Blackfriars; and at their Cement Works, Orchard House, Blackwall.

GLAZED FIRE CLAY DRAIN PIPES.—ILLEN EWYDD BRICK COMPANY, TWIST MUDW, near SWANSEA, Manufacturers of Water-pipes, Water-closet Pans, Vases, Syphon Traps, Chimney Cans, &c. &c. &c. A Book of Designs sent upon application, free of cost.

Straight Pipes in 2 feet lengths, with Sockets:—

3 in.	4 in.	5 in.	6 in.	8 in.	10 in.	12 in.	15 in.	bore.
9d.	10d.	1s. 1d.	1s. 4d.	2s. 6d.	3s. 6d.	4s.	6s.	per yard.

IMPROVED DRAINAGE,
BY ROYAL LETTERS PATENT.



STANDING, FRANKLIN, & STANDING, Sole Patentees and Manufacturers of the PATENT GLAZED STONE WARE SEWAGE PIPE. Offices, 23, Cornhill, entrance in Change-alley; Factory, Brunton's Wharf, Commercial-road, Limehouse.

By employing their patent machinery, S. F. and S. are enabled to produce a pipe for sewage and other purposes in every way far superior to those made by any other process, but more especially in those qualities so absolutely essential to a perfect, and cleanly mode of drainage. From the great and uniform amount of pressure, and peculiar construction of the machinery relieving the air to escape, used in manufacturing, their pipes are entirely free from air bubbles, proving their greater strength, durability, and entirely preventing the contents percolating through; they are much smoother on the inside, insuring a perfect passage for the sewage, and preventing any deposit.

STRAIGHT PIPES WITH SOCKET JOINTS, BENDS, JUNCTIONS, TRAPS, CLOSET PANS, Water, Gas, and Chemical Pipes, Architectural Ornaments, Vases, Chimney Pots, &c. Shipping and foreign orders executed to any extent.

Specimens may be seen at the offices, 23, Cornhill, where prices, &c., may be obtained, and licences granted for the use of the patent machine.

DRAINAGE.

IMPORTANT TESTIMONIAL
AS TO THE EFFICIENCY OF
DOULTON'S GLAZED STONE PIPES.

Town-hall, Oxford, April 14, 1850.

Gentlemen,—I have much pleasure in giving you my testimony as to the superiority of your Glazed Stoneware Pipes over any brick drain or culvert that I have ever constructed. I have made a drain of your 12-inch and 15-inch pipes of 6,700 feet in length, at a fall of only 5 feet in a mile, or about an inch in 100 feet. The velocity of the sewage water is as great as in a brick drain of 15 feet fall in the same length. More being so little friction in your pipes compared to brick drains.

I also find your 12-inch pipes will discharge more than a brick drain of double the area, allowing the same fall. They are easily laid, and can be fixed either in or out of water. I have made a great many of the joints with clay, preferring it to cement, so that a pipe may at any time be easily removed.

In opening the main pipe recently, to fix a junction for another drain, I found it even cleaner than at the time it was constructed; the soil had passed freely, and there appeared to be no silt or lodgement in any part examined.

I am, Gentlemen, your obedient servant,
R. R. HOGGAR, C.E., and Surveyor.

Messrs. Henry Doulton and Co., High-street, Lambeth, London.

Drawings and Prices on application to HENRY DOULTON and CO., HIGH-STREET, LAMBETH; or GRANVILLE-STREET WHARF, BIRMINGHAM.
MANUFACTORIES, HIGH-STREET, LAMBETH; and ROWLEY REGIS, STAFFORDSHIRE.

LAVENDER DOCK POTTERY, ROTHERHITHE.
IMPROVED GLAZED STONEWARE DRAIN PIPES,
AT REDUCED PRICES.

MIALL, MARSHALL, and Co. Manufacturers of ROMAN CEMENT, SUBMARINE BLUE LIAS LIME and CEMENT, and IMPROVED GLAZED STONEWARE TUBULAR DRAIN PIPES, are prepared to supply the above articles of a superior quality, and at reduced prices.

Drain Pipes from 1 in. to 24 in. bore. Closet Pans, Traps, Bends, Junctions, Syphons, &c.
Fire Bricks. Pitkern, fitted complete, from 3s. each.
DEPOTS.—Pearl's Sufferance Wharf, Upper Thames-street; Dreer's Wharf, Chelsea.
Agents for Liverpool—Messrs. LOMAX and Co. 13, James-street.
OFFICES.—5, Ingram-court, Fenchurch-street, London.

THE NORTH DEVON POTTERY COMPANY manufactures GLAZED EARTHENWARE WATER and SEWERAGE PIPES of very superior quality, CLOSET-PANS, Hollow Bricks, Ventilating Chimney Pipes, and every variety of article required for sanitary uses.

GLAZED SOCKET PIPES, 9 feet long.

3 in.	4 in.	6 in.	6 in.	9 in.	12 in.
8d.	6d.	8d.	6d.	10d.	1s. 3d. per foot.

BUTT JOINTS, WITH SLEEPER SOCKET, same price.

CLOSET PAN AND TRAP,
4s. 6d. each.

Shipped to London, Liverpool, Bristol, and other Ports, free.
N.B.—RESPECTABLE AGENTS WANTED. Address Mr. H. JONES, North Devon Pottery, Annery, near Bideford.

N.B.—These articles are composed of white potters' clay, mixed with pulverised granite, and submitted to a high degree of heat. They are semi-vitreous, and equal in strength and durability to the salt-glazed stone-ware, while in smoothness of surface and accuracy of form they are far superior.

IMPORTANT SANITARY INVENTION.—BY HER MAJESTY'S ROYAL LETTERS PATENT.

C. MARSDEN'S ROTARY WATER CLOSETS and EFFLUVIA TRAPS. It cannot be denied that the effluvia from each body at the time of using a water-closet, cannot pass upwards through water; therefore a person in bad health going to a closet used by a person in ill health, is likely to be infected. The D, P, or S trap placed under most all closets, contains water. It stands to reason when the pan is opened the obnoxious gases that have been confined between the D and pan must rush upwards; and all syphons, which is the cause as the D traps, when the water rushes down, sucks up the purulent matter, and causes the effluvia to rise with a greater force. The above will show that the evil cannot be got rid of. Children or careless persons cannot choke them up, and it is impossible to get them out of order. There is no balance weight, levers, cranks, or handles to pull up or push down, as it works with the weight of water from the cistern. The great advantage these traps have for stream gardens, &c. is that they may remain for months without water, yet keep the steam down. The large cam will revolve with the weight of three pounds of water, yet will take away a ton a minute. If anything as large as a brickbat were to get on the top of the drum it would not stop the motion, thus showing the great advantage much required.—Also Manufacturer of Decorative Marble Paper-hangings.

WATERLOO HOUSE, KINGSLAND-ROAD, NEAR THE BRIDGE.

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